

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method of producing, from a workpiece, a finished disc for a gas turbine engine, the workpiece having a hub and a disc extending radially outwardly from the hub, the method including:
 - forming a support surface on the hub;
 - supporting the workpiece in a machine tool by means of the support surface in a manner which provides tool access to both axial faces of the disc; and
 - performing a sequence of machining operations alternately on opposite sides of the disc while maintaining support of the workpiece by the ~~support-surface~~ surface,
wherein the machining operations are turning operations conducted on a lathe.
2. (Previously Presented) The method as claimed in claim 1, wherein the finished disc is produced from a forged workpiece.
3. (Previously Presented) The method as claimed in claim 1, wherein the support surface is cylindrical and aligned with a longitudinal axis of the workpiece.
4. (Previously Presented) The method as claimed in claim 1, wherein the support surface is an internal surface of the hub.
5. (Previously Presented) The method as claimed in claim 1, wherein the support surface is an external surface of the hub.
6. (Previously Presented) The method as claimed in claim 1, wherein the workpiece is supported by a fixture which engages the support surface and is non-rotatably secured to the workpiece.
7. (Previously Presented) The method as claimed in claim 6, wherein, in addition to the fixture, a tailstock engages the workpiece at a position spaced from the fixture.

8. (Previously Presented) The method as claimed in claim 1, in which the outer periphery of the disc is unconstrained during at least some of the machining operations.

9. (Currently Amended) A method of producing, from a workpiece, a finished disc for a gas turbine engine, the workpiece having a hub and a disc extending radially outwardly from the hub, the method including:~~The method as claimed in claim 1,~~
forming a support surface on the hub;
supporting the workpiece in a machine tool by means of the support surface in a manner which provides tool access to both axial faces of the disc; and
performing a sequence of machining operations alternately on opposite sides of the disc while maintaining support of the workpiece by the support surface,

wherein at least one of the machining operations is delayed after completion of the immediately preceding machining operation, until distortion resulting from the immediately preceding machining operation has taken effect.

10. (Currently Amended) A method of producing, from a workpiece, a finished disc for a gas turbine engine, the workpiece having a hub and a disc extending radially outwardly from the hub, the method including:~~The method as claimed in claim 1,~~
forming a support surface on the hub;
supporting the workpiece in a machine tool by means of the support surface in a manner which provides tool access to both axial faces of the disc; and
performing a sequence of machining operations alternately on opposite sides of the disc while maintaining support of the workpiece by the support surface,

wherein finish machining operations on the disc take place after all rough and semifinish machining operations on both axial faces of the disc have been completed.

11. (Previously Presented) The method as claimed in claim 1, wherein regions of the workpiece in which there is high residual stress are removed in machining operations occurring early in the sequence of machining operations.

12-14. (Canceled)

15. (Previously Presented) A method of producing a disc assembly, comprising:
producing a finished disc according to the method of claim 1; and
including the finished disc in a disc assembly.

16. (Previously Presented) A method of producing a gas turbine engine,
comprising:
producing a finished disc according to the method of claim 1; and
including the finished disc in a gas turbine engine.

17. (Canceled)